	Application No.	lication No. Applicant(s)	
Notice of Allowability	09/787,139	EN ET AL.	
	Examiner	Art Unit	
	Jeremy C. Norris	2841	
	Jeremy C. Noms	2041	
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in the or other appropriate communic IGHTS. This application is subj	is application. If not included ation will be mailed in due coul	rse. <b>THIS</b>
1. 🖾 This communication is responsive to amendment filed 30 l	November 2006.		
2. $\boxtimes$ The allowed claim(s) is/are $\underline{9-13,23,25,26,48-53,56}$ and 63	3.		
3. ☑ Acknowledgment is made of a claim for foreign priority una) ☑ All b) ☐ Some* c) ☐ None of the:		<b>f</b> ).	
1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No			
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3. Copies of the certified copies of the priority documents have been received in this national stage application from the			
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		eply complying with the require	ements
4. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give			CE OF
5. CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.			
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Review (	PTO-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date	s Amendment / Comment or in	the Office action of	
Identifying indicla such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			k) of
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.			
Address to the Address of the Addres			
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 \( \square\) Notice of Inform	nal Patent Application	
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Sumi	mary (PTO-413),	
3. M Information Disclosure Statements (PTO/SB/08),	Paper No./Ma 7.	il Date nendment/Comment	
Paper No./Mail Date <u>06/06</u> 4. ☐ Examiner's Comment Regarding Requirement for Deposit	_	stement of Reasons for Allowar	nce
of Biological Material	9. ☐ Other		. <del>-</del>
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## **DETAILED ACTION**

## Allowable Subject Matter

Claims 9-13, 23, 25, 26, 48-53, 56, and 63 are allowed.

The following is an examiner's statement of reasons for allowance: Claims 9, 11, and 12 state the limitation "wherein said copper film comprises an electroplated layer and has properties that (a) its crystallinity is such that the X-ray diffraction half-width of the (331) plane of copper is less than 0.3 deg". This limitation, in conjunction with the other claimed features, was neither found to be disclosed in, nor suggested by the prior art. Claim 23 states the limitation "said electroless plated film in convex areas of said roughened surface being relatively greater in thickness than said electroless plated film in concave areas of said roughened surface". This limitation, in conjunction with the other claimed features, was neither found to be disclosed in, nor suggested by the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeremy C. Norris whose telephone number is 571-272-1932. The examiner can normally be reached on Monday - Friday, 9:30 am - 5:30 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dean Reichard can be reached on 571-272-1984. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

**JCSN** 

Tuan Dink 12-90-06.